55-4920-376-14+P

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS) AIR MOBILE SHELTER

(AA4920-7016-1)

(FSN 4920-00-148-7448)

This copy is a reprint which includes current pages from Changes 1 and 2.

HEADQUARTERS, DEPARTMENT OF THE ARMY

APRIL 1975

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D101.11: 234-097

NOTE

Except for the RPSTL, this manual has not been prepared according to military specification; but, despite the limitations of its contents, the publication does provide the essential data needed to operate and maintain the equipment.

TM 55-4920-376-14&P
C 2

CHANGE NO. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 22 April 1987

Operator's, Organizational, Direct Support
and General Support Maintenance Manual
(Including Repair Parts and Special Tools Lists)

AIR MOBILE SHELTER
(AA4920-7016-1)
(NSN 4920-00-900-8378)

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C 1

CHANGE
No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC., *26 December 1980*

Operator's, Organizational, Direct Support
and General Support Maintenance Manual
(Including Repair Parts and Special Tools Lists)

AIR MOBILE SHELTER
(AA4920-7016-1)
(NSN 4920-00-900-8378)

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OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS) AIR MOBILE SHELTER (AA4920-7016-1) (NSN 4920-00-900-8378)

REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Aviation Systems Command, ATTN: AMSAV-MPSD, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished to you.

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SECTION 1-0
INTRODUCTION

1.1 GENERAL INFORMATION

This manual outlines utilization and maintenance procedures for the Air Mobile Shelter, NSN 4920-00-900-8378. Included are procedures for enhancing the shelter's effectiveness by fitting it with mobilizers for over-the-road or cross-country towing.

1.2 DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Procedures for destroying Army materiel to prevent enemy use are listed in TM 750-244-1-4.

1.3 EQUIPMENT RECORDS.

The Army equipment record system and procedures in DA PAM 738-751 apply to this equipment. The applicable forms as required by DA PAM 738-751 shall be used.

1.4 PURPOSE

The purpose of this manaul is to provide a description of the method of use, necessary maintenance procedures and a list of parts required for maintaining the Air Mobile Shelter.

1.5 USE OF THE MANUAL

The manual is published in four sections containing a general description of the shelter, how to prepare it for use, maintenance procedures and an illustrated parts breakdown. For the purpose of convenience to readers of the manual and users of the shelter pages are numbered consecutively. The table of contents and an index of the manual's illustrations provide quick access to all pertinent information contained in the publication. The IPB parts listing is included for convenient parts ordering.

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SECTION 2-0

DESCRIPTION AND DATA

2.1 SCOPE

This manual contains a complete description of the Air Mobile Shelter, NSN 4920-00-900-8378, with recommended procedures for erection utilization and maintenance. Figure 1 shows the Air Mobile Shelter in its transport/storage configuration. Figure 2 shows the Air Mobile Shelter in its erected configuration.

2.2 DESCRIPTION

The shelter is a metal-bonded-to-plywood enclosure containing tentage and associated shelter accessories. In its transport/storage configuration, the shelter may be carried by air transport vehicles or fitted with mobilizers and hauled on land to the site of use. As illustrated in Figure 2, tentage attachments at both ends provide a covered work area of approximately 200 square feet. Receptables and lights in the shelter receive electrical power from an external source.

2.3 SPECIFICATIONS

DIMENSIONS, CLOSED

Length	70.50 inches
Width	102.00 inches
Height	55.75 inches

DIMENSIONS, OPEN

Length	290.00 inches
Width	102.00 inches
Height	88.75 inches

WEIGHT, with accessories, but without tool set or transporter ---------- 1200 pounds

WEIGHT, maximum gross loaded ---------- 4000 pounds

ELECTRICAL CIRCUIT CAPACITY - 120 Volt, 60 Hertz, 3-Wire single phase, 20 Amps

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2.4 PACKING LIST

The following items are packaged in the shelter when the shelter is ready for storage or shipment:

4 pieces of tenting (2 top, 2 side)
4 tent braces, outer frame lateral
6 adjustable tent poles
6 pieces of rope
2 tent braces, center frame lateral
2 tent braces, frame pole bars
30 tent stakes
1 electrical power cable
1 electrical grounding stake
1 maintenance manual

SECTION 3-0

PREPARATION FOR USE

3.1 GENERAL

This section contains the step-by-step procedure for erecting the Air Mobile shelter and also the procedure for restoring the shelter to its transport/storage configuration. Information on preparing the shelter for shipment by air is given. Special instructions for ground transportation are included.

3.2 TOOLS REQUIRED

No special tools are required. Only ordinary service tools, such as a hammer and an adjustable open end wrench, are required. Two men are required to erect the shelter because of its size and weight.

3.3 LOCATION FOR ERECTION

This shelter may be erected on any surface that is relatively flat and dry. An unobstructed area 8 feet x 25 feet is required. Use stones or planking to level the shelter if it must be set up on uneven terrain.

3.4 PROCEDURE FOR ERECTION

In the transport/storage configuration the shelter appears as shown in Figure 1. In the fully erected configuration the shelter appears as shown in Figure 2. Optionally the shelter may be opened from either side, one side may be opened while the other side is left closed, the tent top may be utilized as a cover for the opened side or the tentage can be fully deployed using the enclosed tent poles.

a. Unfasten the Hasp, on the side of the shelter.

b. Using two (2) men, one at each end of the shelter, lift the Hinged cover, P/N AA4920-7016-3, until the 1/2 inch diameter hole in each end of the hinged cover aligns with the hold in the top outside corner of the frame.

c. The Retaining Pin hangs from a lanyard immediately inside the shelter, adjacent to the hinge latch slot. Insert the Retaining Pin thru the 1/2 diameter hole in the hinged cover, P/N AA4920-7016-3 and thru the steel frame member on the inside of the container. See Detail A in Figure 3.

d. Repeat Steps b and c at the opposite end of the container. The hinged cover is now secured in the latched open position and is positively prevented from lowering accidentally.

PROCEDURE FOR ATTACHING AND DEPLOYING TENTING

The nylon tent pieces, the tent frames and the tent poles are identified in Figure 4. To assemble the tenting refer to Figure 10 and proceed as follows:

a. Select a tent Top Piece, P/N AA4920-7016-30-1. Unfold and spread out, zipper side down. Observe the cording along the edge which has two flaps attached to it. Slide the cording on the edge into the three (3) piece tent track along the outer edge of the Hinged Cover, P/N AA4920-7016-3. Because of its bulk the cording will hold the tenting securely in the track.

b. Slide the cording on the flaps into the tent track along the vertical corner post. See Figure 3.

At this stage the tenting hangs down, acting as a cover over the shelter opening. If the tenting is to be fully deployed as shown in Figure 2, throw the tent Top Piece, P/N AA4920-7016-30-1, back onto the top of the shelter and proceed as follows:

c. Place the stud end of three (3) Tent Poles through the holes in the Tent Frame Pole Bar, P/N AA4920-7016-36 as shown in Detail C, Figure 3.

d. While one man holds up the Tent Poles with the Tent Frame Pole Bar, P/N AA4920-7016-36, on top: the second man attaches the tent frame laterals beginning with the Center Lateral, P/N AA4920-7016-35.

e. Slip the hole in the tent frame lateral over the tent pole stud. Attach the opposite end of the tent frame lateral to the Tent Frame Bracket, P/N AA4920-7016-14, using the 3/8 captive bolt provided as shown in Detail B. Tighten the Captive Bolt using an adjustable open end wrench.

CAUTION: DO NOT OVERTIGHTEN. INTERNAL THREADS ARE ALUMINUM AND EASILY DAMAGED.

f. Repeat Step 5 for each of the Tent Frame Lateral Poles, P/N AA4920-7016-34.

NOTE:

During erection, sight check the pole and lateral assembly for optimum horizontal and vertical alignment. The frame work must be well squared for proper assembly, correct fit of tenting and to prevent bending of frame members.

g. Cover the top of the framework with the tent Top Piece, P/N AA4920-7016-30-1 which was previously installed in Step 1.

h. Select a tent Side Piece, P/N AA4920-7016-30-2. Unfold and spread out, zipper side up.

i. Note that the zipper half in the tent Side Piece, P/N AA4920-7016-30-2 aligns with and matches the zipper half in the tent Top Piece, P/N AA4920-7016-30-1. With one man supporting the tent Side Piece, P/N AA4920-7016-30-2 and the second man guiding and mating the zipper halves, attach the tent Side Piece, P/N AA4920-7016-30-2 to the tent Top Piece, P/N AA4920-7016-30-1.

j. Lash the assembled tenting pieces to the tent frame with the straps provided.

k. Secure the tenting to the ground with the Tent Stakes, P/N AA4920-7016-37, provided. The tent stakes are designed for driving into the ground with a hammer. Drive the tent stakes through the grommeted holes provided in the tenting pieces.

l. Secure the erected assembly against the wind using three (3) of the fifteen foot lengths of rope provided. Tie one end of a piece of rope around the tent pole stud. Lash the opposite end of the rope to a securely embedded tent stake. Repeat this procedure for each of the three (3) tent poles. The corner guy ropes must extend diagonally from the tent corners for maximum effectiveness. See Figure 3 for the proper configuration of the rope guys.

CAUTION:

Without guys the tenting is capable of withstanding ten (10) mile per hour winds. With guys the tenting is capable of withstanding forty (40) mile per hour winds. Winds in excess of forty (40) miles per hour on a properly guyed tent will result in bent or buckled tent poles and braces and may lead to destruction of the shelter. The shelter should be reduced to its transport/storage configuration if winds in excess of forty (40) miles per hour are anticipated.

One half of the Air Mobile Shelter is now completely erected. The remaining half of the shelter may be erected by repeating all of preceding steps, beginning with Paragraph 3.4, Step 2.

3.6 ELECTRICAL POWER

Lamps and receptacles in the shelter operate from 120 Volt, 60 Hertz, single phase power furnished from an external source.

3.7 CONNECTING ELECTRICAL POWER

a. Drive the Ground Rod, P/N AA4920-7016-1-54, into the ground using a hammer. Attach the shelter safety ground to the ground rod using the clip provided.

b. Furnished with the shelter is a 25-foot Flexible Cable P/N AA4920-7016-21-2 with a 3-slot female connector on one end. Connect this cable to the power source as follows: With the free end of the cable bared, connect the black-coded conductor to the hot side, and the white-coded conductor to the return side of the AC source. Connect the green-coded wire to the power source system ground. To bring power into the shelter, connect the female plug on the power cable to the Male Receptacle, P/N AA4920-7016-1-50. Another 25-foot Cable, P/N AA4920-7016-21-3 is used to feed power to another shelter.

c. A 20-ampere circuit breaker with Toggle Switch, P/N AA4920-7016-1-41 controls the 120 VAC power to the receptacles and lamps in the shelter. No separate lamp switches are provided.

3.8 PREPARING THE AIR MOBILE SHELTER FOR SHIPMENT OR STORAGE

After the shelter has served its purpose in one location and is to be transported to another location or stored until needed again, it must be dismantled. All accessories and equipment must be stowed securely inside the shelter and the shelter sealed closed. The dismantling procedure is the exact opposite of the erection procedure. A general schedule for the dismantling procedure is presented below. For detailed instructions refer to Section 3.4 and follow the erection procedure in reverse order. Two men are required to accomplish the dismantling.

a. Disconnect the electrical system from the power source. Disconnect the electrical ground and pull up the electrical ground rod. Wipe off dirt and stow.

b. Remove guy ropes, inspect for needed replacement and stow. Pull up tent stakes, wipe off dirt and stow.

c. Remove tenting pieces and inspect for needed repairs or replacement. Spread out tenting pieces on a clean flat surface and fold as described in Steps 4 and 5. Stow inside shelter after folding.

d. To fold the Tent Side Piece, P/N AA4920-7016-30-2, proceed as follows: (Refer to Figure 6)

a) Fold tenting lengthwise in zig-zag fashion for a total of 15 folds.

b) Fold tenting crosswise in halves, white side innermost.

c) Again fold tenting crosswise in thirds as indicated by dotted lines in Figure 6. Follow sequence indicated in illustration; tenting edge will be outermost. When so folded, the side piece forms a bundle 16 inches wide by 19 inches long and about 2 1/2 inches thick.

e. To fold the Tent Top Piece, P/N AA4920-7016-30-1, proceed as follows: (Refer to Figure 6)

a) Fold the two flaps in upon the larger square as shown in (A), Figure 6. Fold with white sides facing each other.

b) Fold the TOP piece into halves as shown in (B), Figure 6.

c) Fold the bundle lengthwise as shown in (C), Figure 6.

d) Fold the bundle in thirds as indicated by dotted lines in (D), Figure 6. When so folded the TOP piece forms a bundle 10 inches wide by 24 inches long and about 2 1/2 inches thick.

f. Dismantle the tent poles and laterals and stow securely inside the shelter. Stow all tent poles and laterals placed diagonally from one corner to the opposite corner and flat on the floor.

g. Lower the hinged covers.

h. Secure the locking hasp at one end of the hinged covers.

3.9 SHELTER MOBILITY ACCESSORIES

3.9.1 GENERAL

Special transporter adapters on each end of the Air Mobile Shelter (See Figure 1) permit a four-wheeled demountable running gear to be attached to the shelter for ground mobility. The adapters are designed for use with the Transporter/Mobilizer, FSN1740-902-3132.

3.9.2 TRANSPORTER/MOBILIZER

The demountable running gear consists of two-wheeled front and rear dollies which, when attached to the Air Mobile Shelter, become an integral part of the shelter. Thus equipped, the shelter may be towed at speeds not to exceed sixty (60) miles per hour on highways, twenty (20) miles per hour on secondary and improved roads and ten (10) miles per hour on cross country terrain.

3.9.3 ATTACHING THE TRANSPORTER/MOBILIZER

One man can attach the running gear to the shelter in about ten minutes as follows: (Note that the towing end of the running gear may be attached to either end of the shelter.)

a. Position the front dolly at one end of the shelter and the rear dolly at the opposite end.

b. Align the spades on the running gear with the adapter brackets.

c. Insert the spades into the sockets and align the locking pin holes.

d. Insert the locking pin through the aligned holes; repeat this procedure at all four attachment points.

e. Pump each dolly to its raised position and lock strut into position.

f. Install the tie cable assemblies connecting front and rear dollies. Use pump handle to tighten nuts.

3.9.4 ATTACHING THE SHELTER AND TRANSPORTER/MOBILIZER TO TOWING VEHICLE

To attach the shelter and running gear to the towing vehicle, proceed as follows:

a. Attach the drawbar to the towing vehicle by placing the lunette eye of the running gear in the pintle of the towing vehicle.

b. Lock the pintle hook.

c. Connect the electrical cable assembly to the towing vehicle.

3.9.5 DETACHING THE TRANSPORTER/MOBILIZER

To detach the running gear from the shelter, proceed as follows:

a. Set the parking brake on the rear dolly.

b. Remove tie cable assemblies.

c. Before lowering the shelter, place the hydraulic control valve in "pump" position and pump up slightly to relieve tension on the struts. Release struts by loosening the wing nut.

d. Slowly move the hydraulic control valve to "release" position and allow pressure to be released. Speed of release can be controlled by adjusting the control valve.

e. Detach the locking pin assembly from the four mounting points on shelter.

f. Release the parking brake. Push the front and rear dollies down and away from the shelter to separate.

SECTION 4-0

MAINTENANCE

4.1 GENERAL

Preventive maintenance, refurbishment, lubrication and the repair methods necessary to keep the shelter in good condition are discussed in this section. Tools, methods and materials are listed, lubrication is described and acceptable performance limits are specified. Troubleshooting and repair procedures are detailed.

4.2 PREVENTIVE MAINTENANCE

Careful handling and correct use of the shelter are the best insurance of a long service life. Erection and dismantling according to the methods recommended in section 3-0 of this manual will prevent damage due to careless misuse. A regular schedule of cleaning, along with paint touchup as required, will help in maintaining a neat-appearing shelter.

4.3 SHELTER CLEANING IN THE ERECTED CONFIGURATION

Due to its enamel-coated aluminum skin construction, the shelter is easy to clean. The following procedure is recommended:

a. Sweep the floor each morning with an ordinary push broom. Push the sweepings into a dustpan or similar collector - not onto the terrain under the tenting.

b. Pick up all debris on the terrain under the tenting.

c. Once a week, clean the interior walls with a cloth dampened with a mild detergent solution and wipe dry.

d. Once a week, clean the exterior of the shelter, using the same detergent as in Step c. Apply with a soft bristle brush or sponge, scrubbing off all dirt and grime. Rinse with clean water. Dry with a soft cloth.

4.4 INSPECTION FOR WORN OR DAMAGED PARTS

Immediately after washing is the best time to inspect the shelter for wear and damage. In particular, look for scratches and flaked-off paint, loose or broken rivets and bolts, torn tenting and broken or bent tent support pieces.

4.5 SHELTER REPAINTING

Any spots in need of refinishing are prepared for painting by removal of all loose or flaked paint. Smooth with #0 sandpaper, featheredging all sanded spots to insure a smooth surface for the new paint. Suitable paints are:

Base Coat:	Primer per TT-P-636. Apply per MIL-STD-808, F100 for steel, F300 for aluminum.
Exterior:	Enamel per MIL-E-52798, Color No. 34079 per FED-STD-595. Apply per MIL-STD-808, F100 for steel, F300 for aluminum.
Interior Walls and Ceiling:	Enamel per TT-E-529, Color No. 24524 per FED-STD-595. Apply per MIL-STD-808, F100 for steel, F300 for aluminum.

Apply with a 2-inch brush or spray. Thin paint if necessary with an acceptable thinner conforming to TT-T-291.

Allow 4 to 8 hours to dry.

4.6 LUBRICATION REQUIREMENTS AND SCHEDULE

The moving parts on the shelter are the covers. Hinges and cover hasps are the points of movement that require lubrication. Once a year apply a small quantity of a graphite-base lubricant to each hinge and cover hasp. Use only enough lubricant to assure proper action of the point of motion; too much lubricant will result in undesirable drippage.

4.7 HARDWARE REPLACEMENT

To replace defective rivets, proceed as follows:

Drill out the faulty rivet. Replace with a drive rivet of the proper size. If rivets are not available, the repair can be made with a suitable self-threading sheet metal screw.

4.8 SHELTER FLOOR REFINISHING

The shelter floor is coated with a skidproof finish. To restore the finish when worn, proceed as follows:

a. Apply a liberal coating of paint remover with a paint brush. Soak for 15 minutes.

b. Scrape off loosened surfacing with a scratch brush.

c. Repeat Steps a and b, as necessary until all finish has been removed.

d. Prime with TT-P-636 alkyd primer. Finish with a mix of TT-E-529 alkyd enamel and Reardon ADMIX in the proportions recommended in the ADMIX package. Allow 4 to 8 hours to dry.

4.9 SHELTER FLOOR PANEL REPLACEMENT

The shelter floor is 3/8" plywood covered with .020 inch thick aluminum. To replace a defective or damaged floor, proceed as follows:

a. Drill out all the rivets in the flooring. Remove the old flooring.

b. Obtain a replacement Frame Floor Panel, P/N AA4920-7016-27-5 (60, Fig. 8).

c. Using the old floor panel as a template, duplicate the required No. 8(.199) diameter holes in the new floor panel.

d. Apply GE Silicone construction sealant SE1202, per Federal Specification TT-S-230 in a 1/16" bead on the below-floor framework.

e. Using 1/4 inch sheetmetal screws, fasten the new flooring in place.

f. Refinish as instructed in paragraph 4.8.

4.10 TENTAGE REPAIR

If in need of repair, the tenting can be patched by the following procedure:

a. Using a piece of material per MIL-C-20696 Type 2 in an appropriate color, cut out a patch 1 inch wider on all sides than the tear to be mended.

b. Apply 3M Compound EC 971 Industrial Adhesive (NSN 8040-

656-8952) per manufacturer's instruction to the patch piece and also to the tenting area to be covered by the patch. Scrape off excess.

4.11 TENT SUPPORT FRAME REPAIRS

Tent supports that are damaged beyond use must be discarded and replacement procured. If one of the 3/8-16 Hex Screws, P/N AA4920-7016-17, holding the laterals onto the cover is broken, proceed as follows:

a. Drill a 3/16" hole through the broken part of the screw.

b. Extract the broken piece with an "Easyout".

c. Reattach the lateral using a new hex head screw.

4.12 ELECTRICAL SYSTEM REPAIRS

4.12.1 GENERAL

As shown in Figure 5, single phase, 120 VAC, 60 Hertz power is supplied to the shelter. Four incandescent light fixtures and two dual receptacles are connected to the 120 Volt AC circuit. Both lamps and receptacles are protected by a 20 ampere circuit breaker. All wiring is color-coded for servicing convenience.

4.12.2 120 VAC RECEPTACLE REPLACEMENT

When the plug will no longer remain in the receptacle but falls out from the weight of the cord, or when contact is erratic, the receptacle should be replaced. For replacement, obtain a polarized dual receptacle, Arrow Hart 5242 (item 44, Figure 8) or equivalent. Follow the instructions accompanying the receptacle.

CAUTION - DO NOT WORK ON REPLACING THE RECEPTACLE WHILE THE CIRCUIT IS ENERGIZED.

4.12.3 POWER FAILURE AND REPAIRS

In the event of circuit overload, the circuit breaker will trip. A visible red strip below the switch or the switch handle snapped to mid-position indicates a tripped circuit breaker.

CAUTION - BEFORE THROWING THE CIRCUIT BREAKER HANDLE TO ON, DETERMINE THE CAUSE OF THE OVERLOAD AND MAKE SUITABLE REPAIR TO PREVENT REPEATED CIRCUIT BREAKER TRIPPING.

To reset the breaker, push the handle first to the OFF position, then to the ON position.

4.12.4 CIRCUIT BREAKER REPLACEMENT

If the circuit breaker refuses to remain in the ON position under normal or no-load conditions, or if no power is delivered when the handle is in the ON-position, the circuit breaker is faulty and must be replaced. Proceed as follows:

a. De-energize the circuit by detaching the external power cable from external power source.

b. Remove the switch box cover by loosening the two retaining screws.

c. Detach the load circuit wire at the bottom of the circuit breaker.

d. To remove the circuit breaker, pull at the top end thereby disengaging the plug-in jaws from the bus bar. Next, pull at the bottom, thereby disengaging the breaking clip from the mounting cam.

e. Install a new circuit breaker using the procedure of Step d in reverse: clip onto mounting cam: then plug in jaws onto the bus bar.

f. Connect the lead circuit wire to the circuit breaker.

g. Reattach the switch box cover.

h. Re-energize circuit by reconnecting to the external power source.

SECTION 5-0

ILLUSTRATED MAJOR PARTS AND SUBASSEMBLIES

5.1 GENERAL CONSIDERATIONS

Major assemblies, subassemblies and individual parts used in the Air Mobile Shelter are listed and illustrated in this section. Figure 2 illustrates the final assembly; Figures 8, 9, and 10 show a major subassembly.

5.2 HOW TO USE THE ILLUSTRATION

a. To find the number of a component part, refer to the illustration of the assembly containing that part. Locate the part on the illustration, find its index number and refer to the associated parts list to determine the part number.

b. If no part number is listed, the part is a commercially available bulk item and is described in the adjacent column.

c. If a government specification is listed, the part is manufactured to that specification.

d. If a military standard number is listed the part is manufactured to that standard.

e. If a vendor part number is listed, the vendor may be identified by the five-digit number in the "Federal Manufacturer's Code" column. See paragraph 5.4.

f. Parts descriptions are indented to show an individual part's relationship to an assembly. The "units per assembly" column lists the number of units used in the total shelter assembly.

5.3 HOW TO USE THE NUMERICAL INDEX

To determine the description of a known part number or its relationship to an assembly, refer to the Numerical Index. Find the number in the "Part Number" column. The number in the "Item No." column is the figure number on the illustration where the part is shown. The "Qty. Per Art." (quantity per article) column notes the total quantity of a particular part used in the shelter. (Total Assembly).

TABLE I PARTS LIST

FIGURE & ITEM NO.	PART OR DWG. NO.	PART DESCRIPTION	UNITS PER SHELTER	FED MFR'S CODE
2	AA4920-7016-1	SHELTER, AIR MOBILE		52617
2	AA4920-7016-30	TENTAGE, SHELTER	2	52617
10-1	AA4920-7016-30-2	SIDE, TENT	2	52617
10-2	MIL-R-1734C	ROPE, NYLON, 3/16" DIA. 20" LG.	124	52617
10-3	MIL-C-20696 T.I., Cl.2	PATCH, REINFORCEMENT 1-1/4"x1'1/2"	124	52617
10-4	V-F-106 T., V. Style 2	ZIPPER, REV DBL PULL 93" LG.	2	52617
10-5	V-F-106 T., V. Style 2	ZIPPER, REV DBL PULL 87" LG.	4	52617
10-6	MIL-G-16491C T.III, Cl.3, Size 4	GROMMET	104	52617
10-7	AA4920-7016-30-1	TOP TENT	2	52617
10-8	MIL-R-17343C	ROPE, 3/16" DIA. 50" LG.	2	52617
10-9	MIL-R-17343C	ROPE, NYLON, 5/16" DIA. 181" LG.	2	52617
10-10	AA4920-7016-37	STAKE, TENT	30	52617
10-11	MIL-P-1716*	POLE, TENT, VERTICAL	6	81996
10-12	AA4920-7016-36	BAR, POLE, TENT FRAME	2	52617
10-13	AA4920-7016-35	BAR, CENTER, TENT FRAME	2	52617
10-14	AA4920-7016-34	BAR LATERAL, TENT FRAME	4	52617
7-15 through 7-31, Deleted				
8-26	V1507	RING BOLT	4	52617
8-32	MS 27965-16	HASP, HINGED	1	52617
8-33	1641-0621	RIVET, BLIND	7	52617
8-34	AA4920-7016-3	COVER ASSEMBLY HINGED	2	52617
8-35	2x92.88x.25 Pin	HINGE, COVER ASSEMBLY	2	52617
8-36	AA4920-7016-33	HINGE FLEXIBLE	1	52617
8-37	AA4920-7016-12	STRIP, RIVET, HINGE	2	52617
8-38	AA4920-7016-27-6	PANEL, HINGE	1	52617
8-39	1641-0631	RIVET, BLIND	72	52617
8-40	Deleted			
8-41	HUBBELL 2625	CONNECTOR	1	72268
8-42	HUBBELL 3393	CONNECTOR	1	72268
8-43	BELL 902/500	EXTENSION RING & BOX	1	08556
8-44	ARROWHART 5242	RECEPTACLE DUAL	2	04009
8-45	APPLETON 4SSL	BOX & COVER	2	03743
8-46	SQUARE D 00120	CIRCUIT BREAKER	1	56365
8-47	SQUARE D Q02-4AS	BOX	1	56365
8-48	NA 11/16-6	CLAMP PLASTIC	8	52617
8-49	MS24618-39	SCREW SELF TAPPING	8	
8-50	VXHF 15/G43	FIXTURE LIGHT	4	52617
8-51	Deleted			
8-52	100A21/RS	BULB LIGHT	4	52617

*Furnished as components of shop set.

FIGURE & ITEM NO.	PART OR DWG. NO.	PART DESCRIPTION	UNITS PER SHELTER	FED MFR'S CODE
8-53	MS17984-835/LT1504-C8-16	PIN & LANYARD ASSEMBLY	4	52617
8-54	1641-0621	RIVET, BLIND	4	52617
8-55	Deleted			
8-56	AA4920-7016-16-1	TRACK TENT	4	52617
8-57	MS24618-49	SCREW, SELF TAPPING	16	
8-58	AA4920-7016-27-1	PANEL, FRAME END	2	52617
8-59	Deleted			
8-60	AA4920-7016-27-5	PANEL FLOOR	2	52617
8-61	1641-0631	RIVET, BLIND	250	52617
8-62	AA4920-7016-7	FRAME ASSEMBLY	1	52617
8-63	NO. 45	CLAMP, GROUND CABLE	1	52617
8-64	AA4920-7016-1-54	STAKE, GROUND	1	52617
9-65	MS20426AD6-16	RIVET	464	52617
9-66	AA4920-7016-18-2	PANEL, TOP	2	52617
9-67	AA4920-7016-18-3	PANEL, SIDE	4	52617
9-68	AA4920-7016-18-1	PANEL, FRONT	2	52617
9-69	AA4920-7016-19-1	CORNER, TOP INNER	4	52617
9-70	AA4920-7016-19-2	CORNER, TOP OUTER	4	52617
9-71	AA4920-7016-19-3	CORNER, FRONT OUTER	4	52617
9-72	AA4920-7016-19-4	CORNER, FRONT INNER	4	52617
9-73	AA4920-7016-19-5	CORNER, TOP FRONT OUTER	2	52617
9-74	AA4920-7016-19-6	CORNER, TOP FRONT INNER	2	52617
9-75	1641-0631	RIVET, BLIND	46	52617
9-76	AA4920-7016-16-2	TRACK, TENT	2	52617
9-77	AA4920-7016-16-3	TRACK, TENT	4	52617
9-78	AA4920-7016-17	SCREW, TENT FRAME	6	52617
9-79	AA4920-7016-14	BRACKET, TENT FRAME	6	52617

FEDERAL SUPPLY CODES FOR MANUFACTURERS

MANUFACTURER	CODE
Appleton Chicago, Ill. 60657	03743
Arrowhart Inc. Hartford, Conn.	04009
Bell Electric Chicago, Ill. 60632	08556
Hubbell Electric Madison, Ohio 44057	72268
Square-D Co. Parkdridge, Ill. 60068	56365

FEDERAL SUPPLY CODES FOR MANUFACTURERS

MANUFACTURER	CODE
Composite Technology, Inc. 802 E. Scotts Ave. Stockton, Calif. 95204	52167
US Army Troop Support and Aviation Material Readiness Command 4300 Goodfellow Boulevard St. Louis, Mo. 63120	81996

PART OR DWG. NO.	DESCRIPTION	ITEM NO.	UNITS PER SHELTER	FED MFR'S CODE
AA4920-7016-1	SHELTER, COMPLETE			52617
AA4920-7016-3	HINGED COVER ASSY.	34	2	52617
AA4920-7016-7	FRAME ASSEMBLY	62	1	52617
AA4920-7016-12	HINGE RIVET STRIP	37	2	52617
AA4920-7016-14	TENT FRAME BRACKET	79	6	52617
AA4920-7016-16-1	TENT TRACK	56	4	52617
AA4920-7016-16-2	TENT TRACK	76	2	52617
AA4920-7016-16-3	TENT TRACK	77	4	52617
AA4920-7016-17	TENT FRAME SCREW	78	6	52617
AA4920-7016-18-1	PANEL, FRONT	68	2	52617
AA4920-7016-18-2	PANEL, TOP	66	2	52617
AA4920-7016-18-3	PANEL, SIDE	67	4	52617
AA4920-7016-19-1	CORNER, TOP, INNER	69	4	52617
AA4920-7016-19-2	CORNER, TOP, OUTER	70	4	52617
AA4920-7016-19-3	CORNER, FRONT, OUTER	71	4	52617
AA4920-7016-19-4	CORNER, FRONT, INNER	72	4	52617
AA4920-7016-19-5	CORNER, TOP FRONT, INNER	73	2	52617
AA4920-7016-19-6	CORNER, TOP FRONT, OUTER	74	2	52617
AA4920-7016-27-1	PANEL, END	58	2	52617
AA4920-7016-27-5	PANEL, FLOOR	60	2	52617
AA4920-7016-27-6	PANEL, HINGE	38	1	52617
AA4920-7016-30-1	TENT, TOP	7	2	52617
AA4920-7016-30-2	TENT, SIDE	1	2	52617
AA4920-7016-33	FLEXIBLE HINGE	36	1	52617
AA4920-7016-34	TENT FRAME LATERAL	14	4	52617
AA4920-7016-35	TENT FRAME CENTER	13	2	52617
AA4920-7016-36	TENT FRAME POLE BAR	12	2	52617
AA4920-7016-37	TENT STAKE	10	30	52617
NA 11/16-6	CLAMP, PLASTIC	48	8	52617
MIL-R-1734C	3/16" DIA. NYLON ROPE 20" LG.	2	124	52617
MIL-P-1734C	3/16" DIA. NYLON ROPE 50" LG.	8	2	52617
MS17984-835/ LT1504-C8-16	PIN & LANYARD ASSY	53	4	52617
MIL-R-1734C	3/16" DIA. NYLON ROPE 181" LG.	9	2	52617
V-T-1066 T., V Style 2	ZIPPER, REV DBL PULL 87" LG.	5	4	52617
V-T-1066 T., V Style 2	ZIPPER, REV DBL PULL 93" LG.	4	2	52617
MIL-P-1716*	POLE, TENT VERTICAL	11	6	81996
MIL-C-20696 T.I., Cl.2	PATCH, REINFORCEMENT	3	124	52617
MIL-G-16491C T.III, Cl.3 Size 4	GROMMET	6	104	52617
MS27965-16	HASP, HINGED	32	1	52617
SQUARED D QO2-4AS	CIRCUIT BREAKER	46	1	56365
SQUARED D QO120	BOX	47	1	56365
VXHF15/G43	LIGHT FIXTURE	50	4	52617

PART OR DWG. NO.	DESCRIPTION	ITEM NO.	UNITS PER SHELTER	FED MFR'S CODE
V1507	RING BOLT	26	4	52617
100A21/R5	LIGHT BULB	52	4	52617
2x92.88x.25PIN	HINGE, COVER ASSY.	35	2	52617
Hubbell 2625	CONNECTOR	41	2	72268
Hubbell 3393	CONNECTOR	42	1	72268
Appleton 4SSL	BOX & COVER	45	2	03743
No. 45	CLAMP, GROUND CABLE	63	1	52617
Arrowhart 5242	RECEPTACLE, DUAL	44	2	04009
MS24618-39	SCREW, SELF-TAPPING	49	8	52617
BELL 902/500	EXTENSION RING & BOX	43	1	08556

*Furnished as components of shop set.

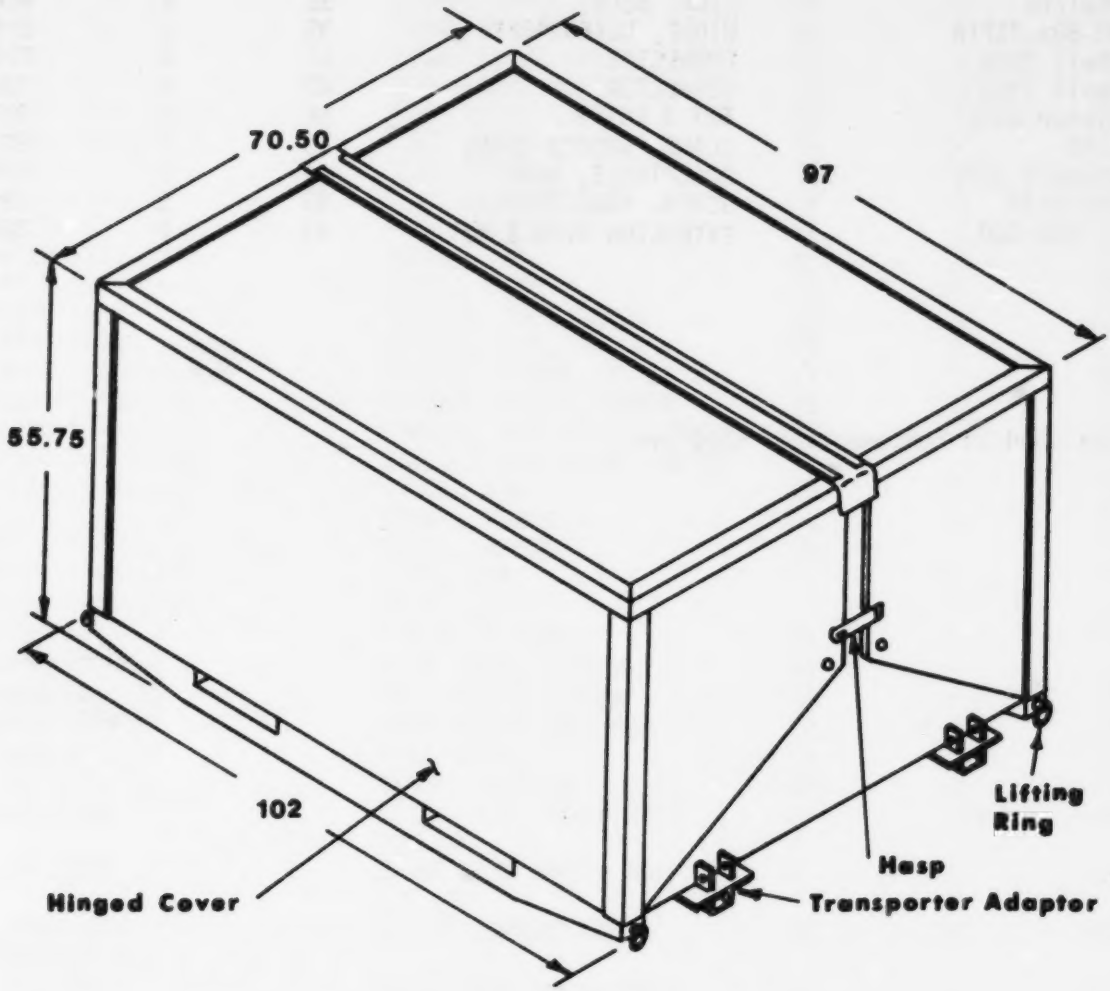


FIGURE 1 AIRMOBILE SHELTER
IN TRANSPORT/STORAGE CONFIGURATION

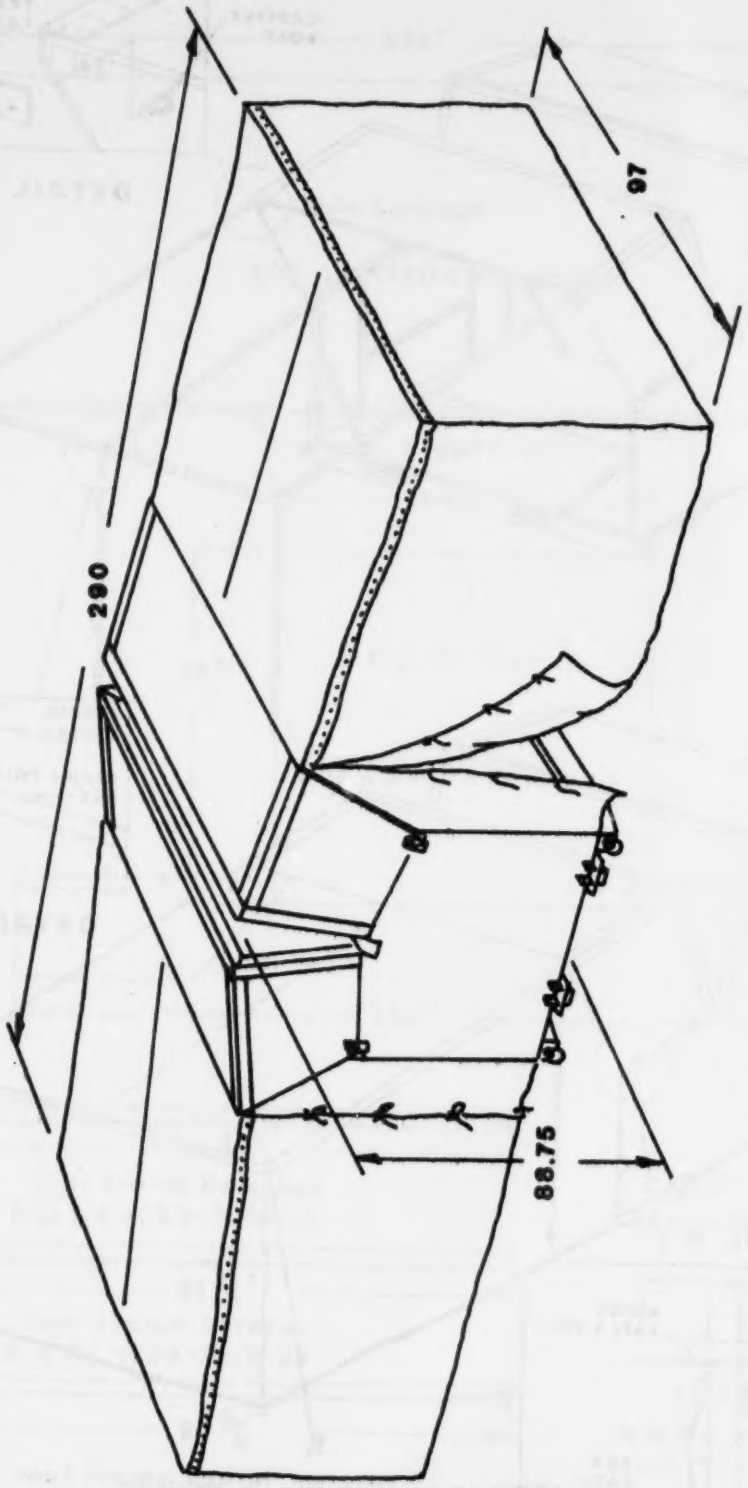


FIGURE 2 AIRMOBILE SHELTER
IN ERECTED CONFIGURATION

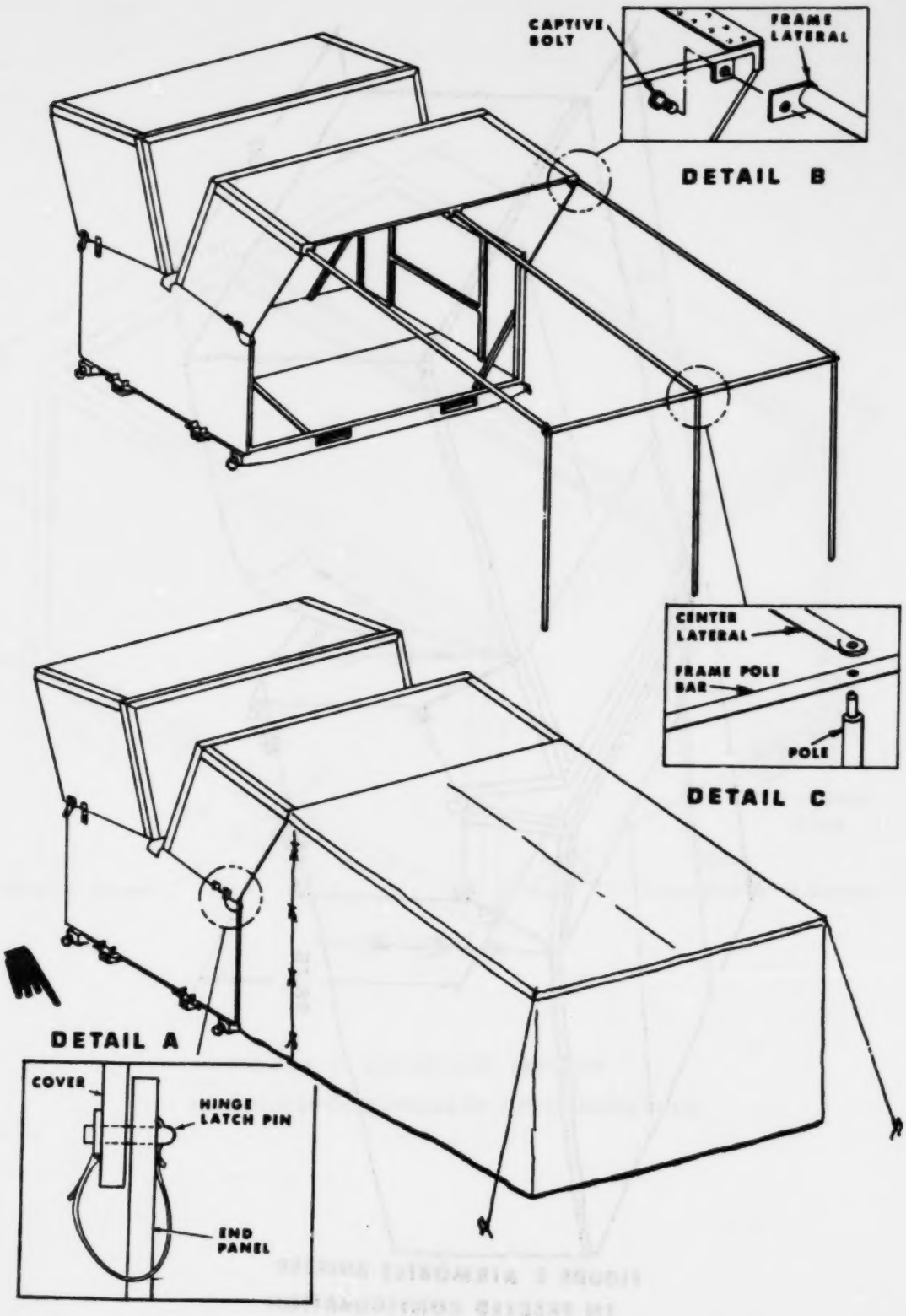


Figure 3. Tenting Attachment.

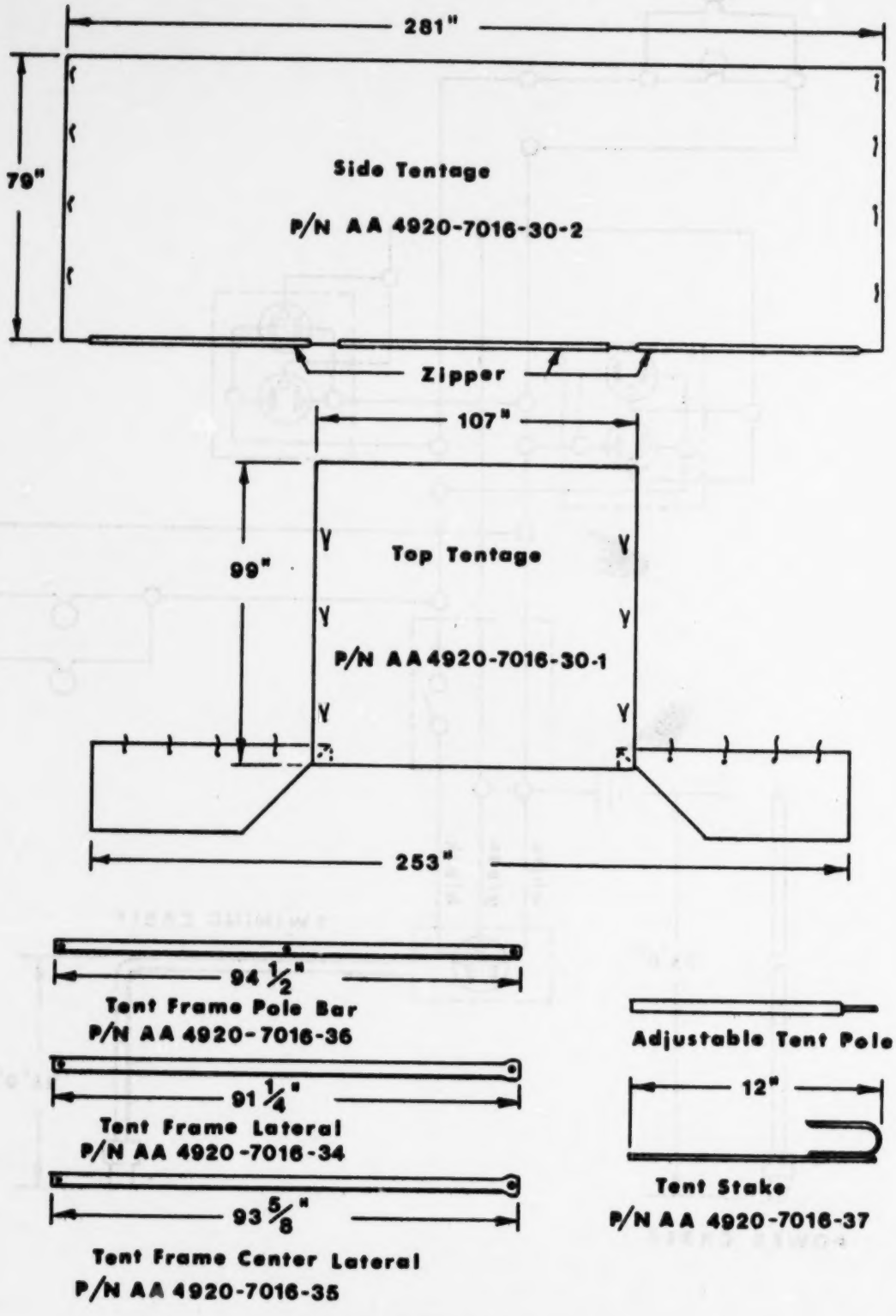


FIGURE 4 TENTAGE AND POLES

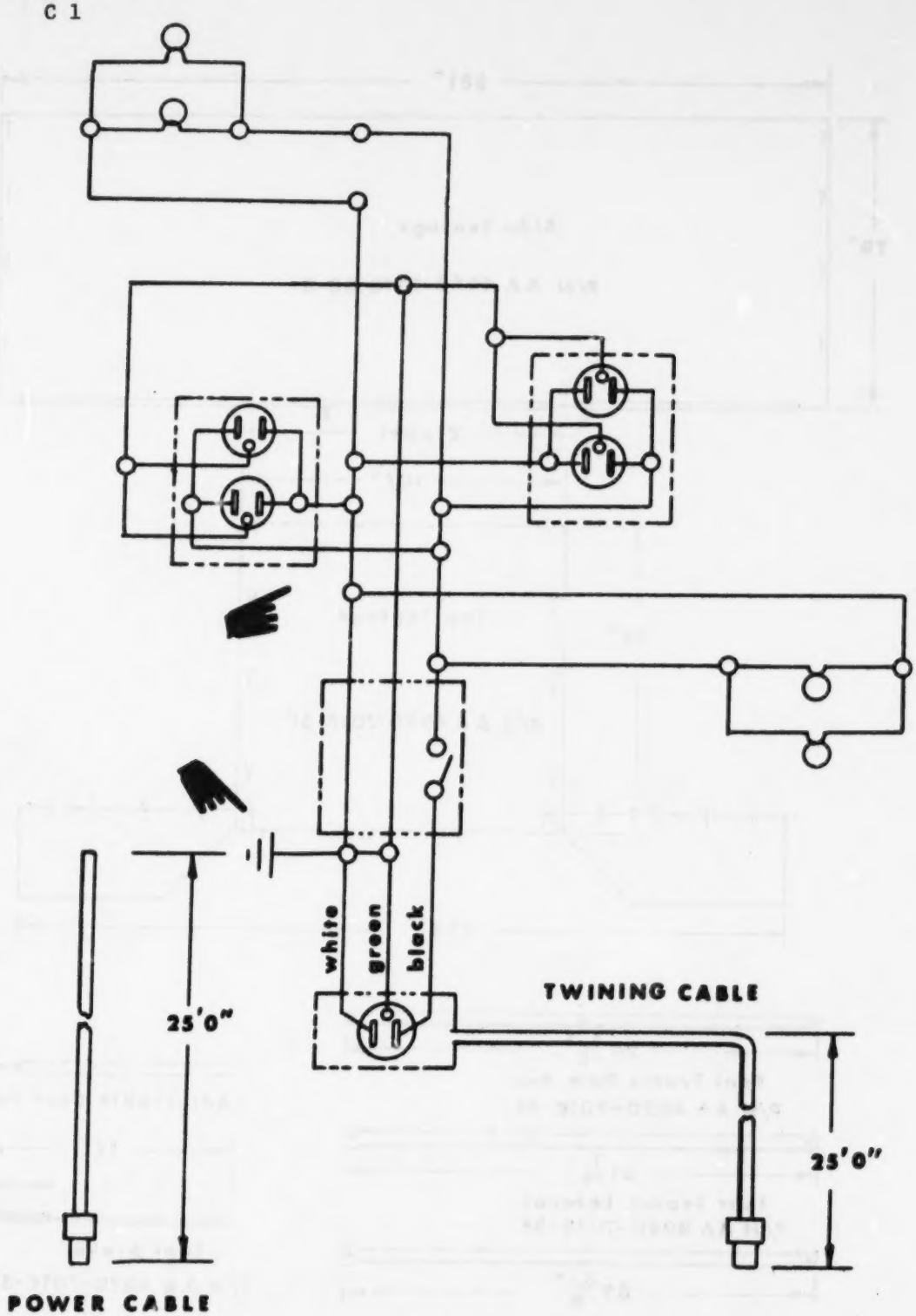
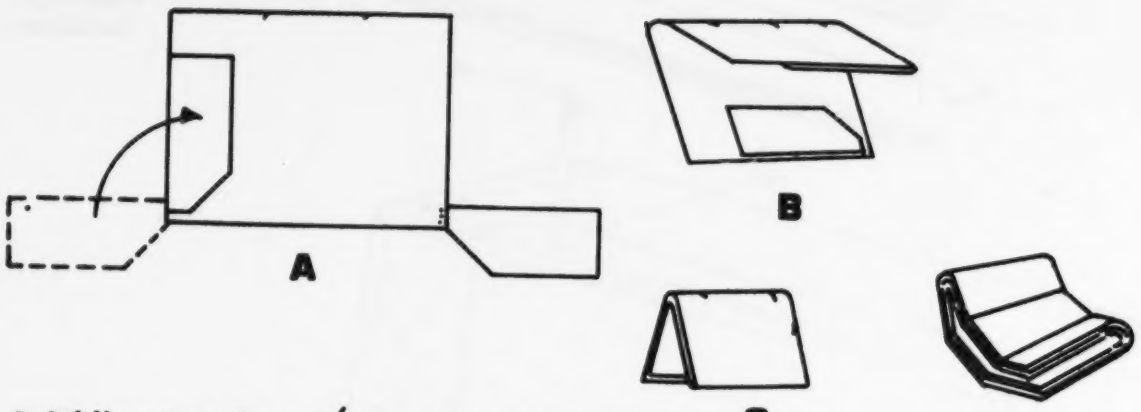
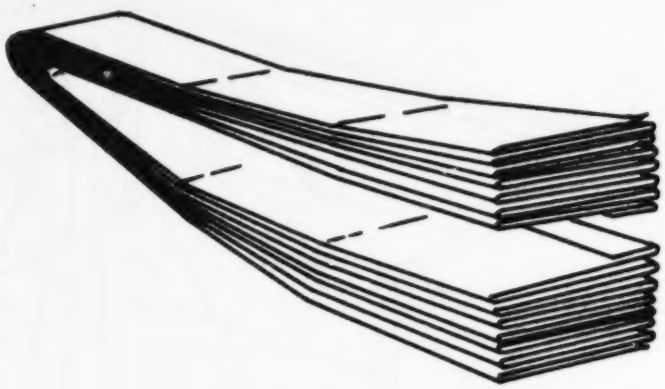


Figure 5. Electrical Schematic.



Refolding Tent Top, P/N AA 4920-7016-30-1



Refolding Tent Side, P/N AA 4920-7016-30-2

FIGURE 6 FOLDING OF TENTAGE FOR STORAGE

Figure 7 is deleted in its entirety.

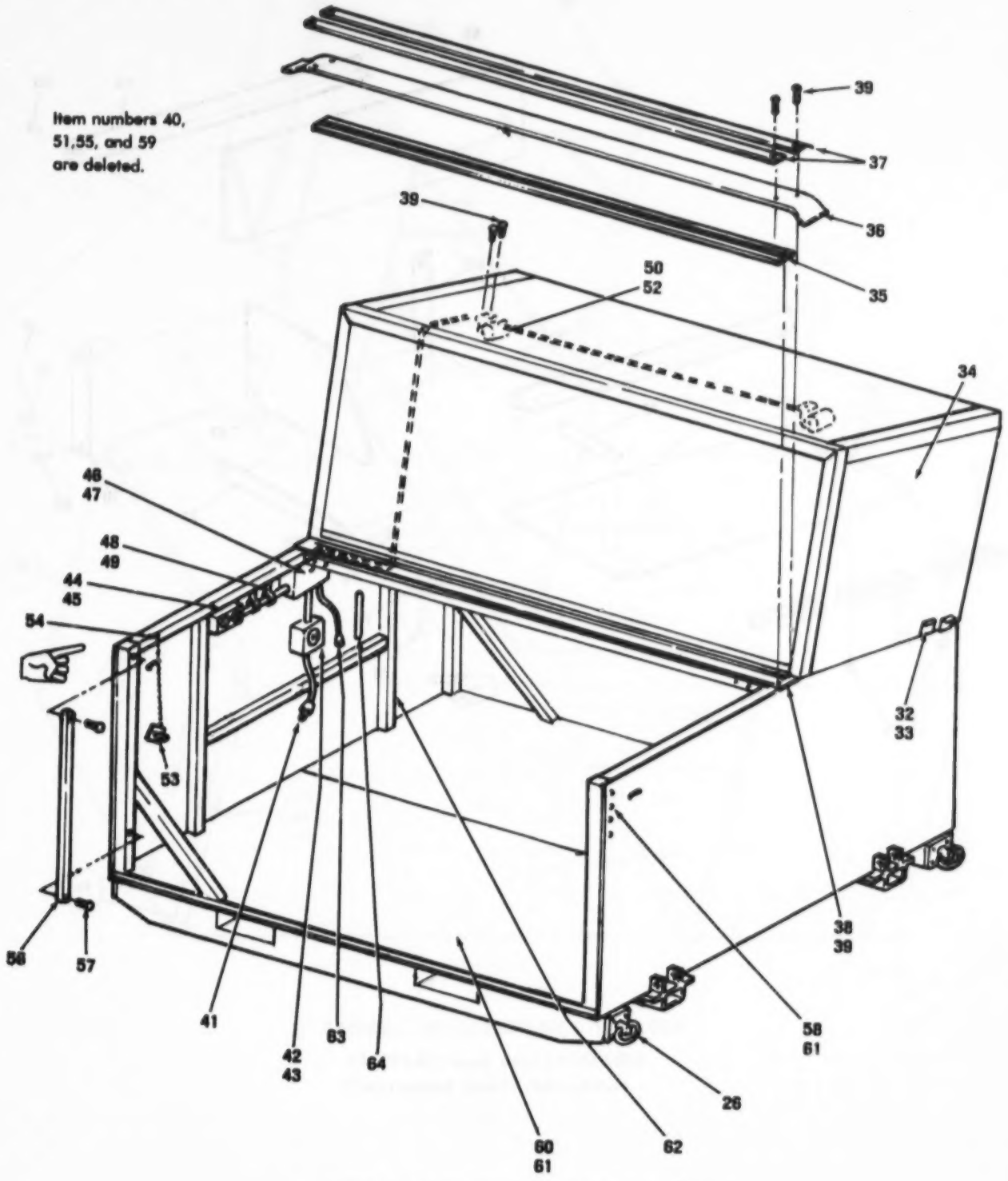


Figure 8. Airmobile Shelter Illustrated Parts Breakout.

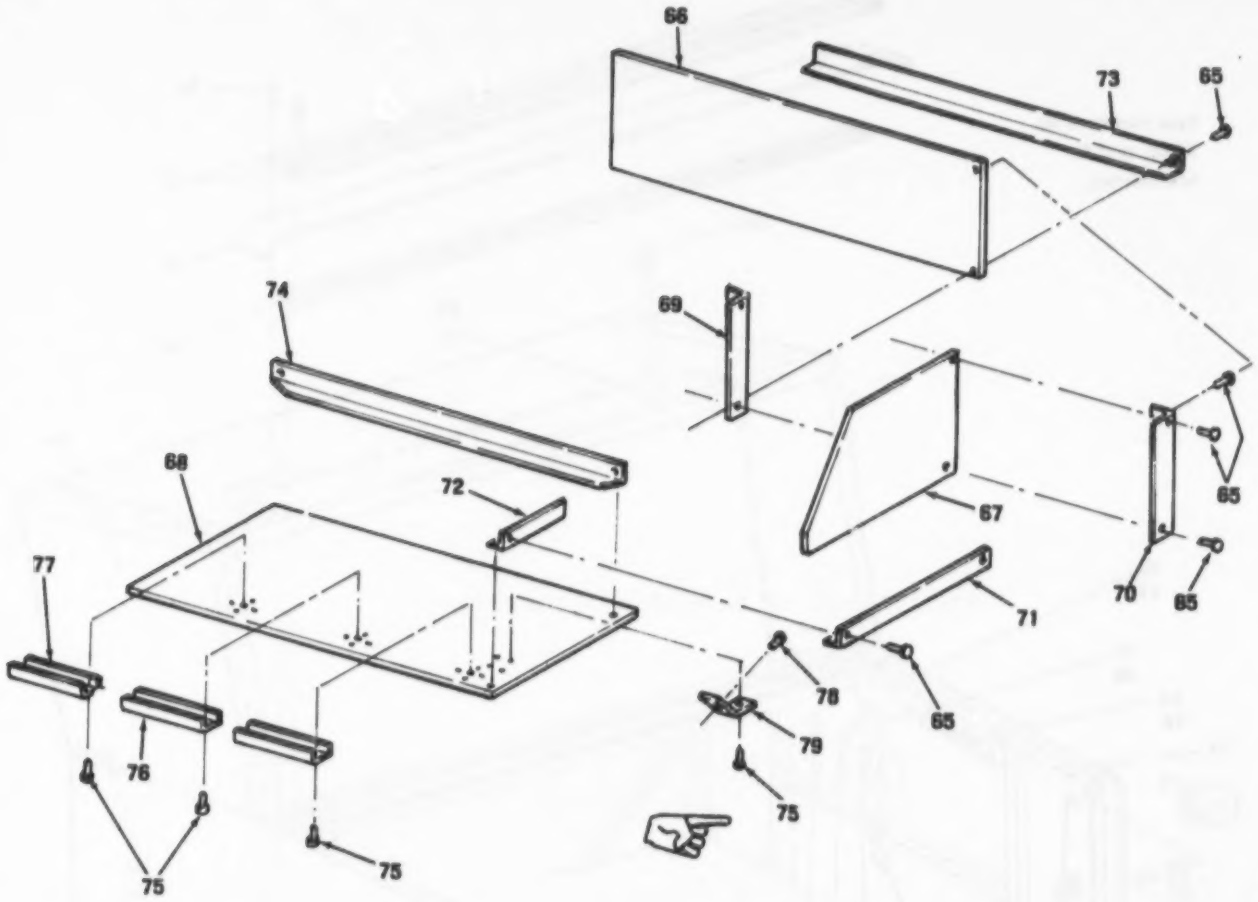


Figure 9. Airmobile Shelter Illustrated Parts Breakout.

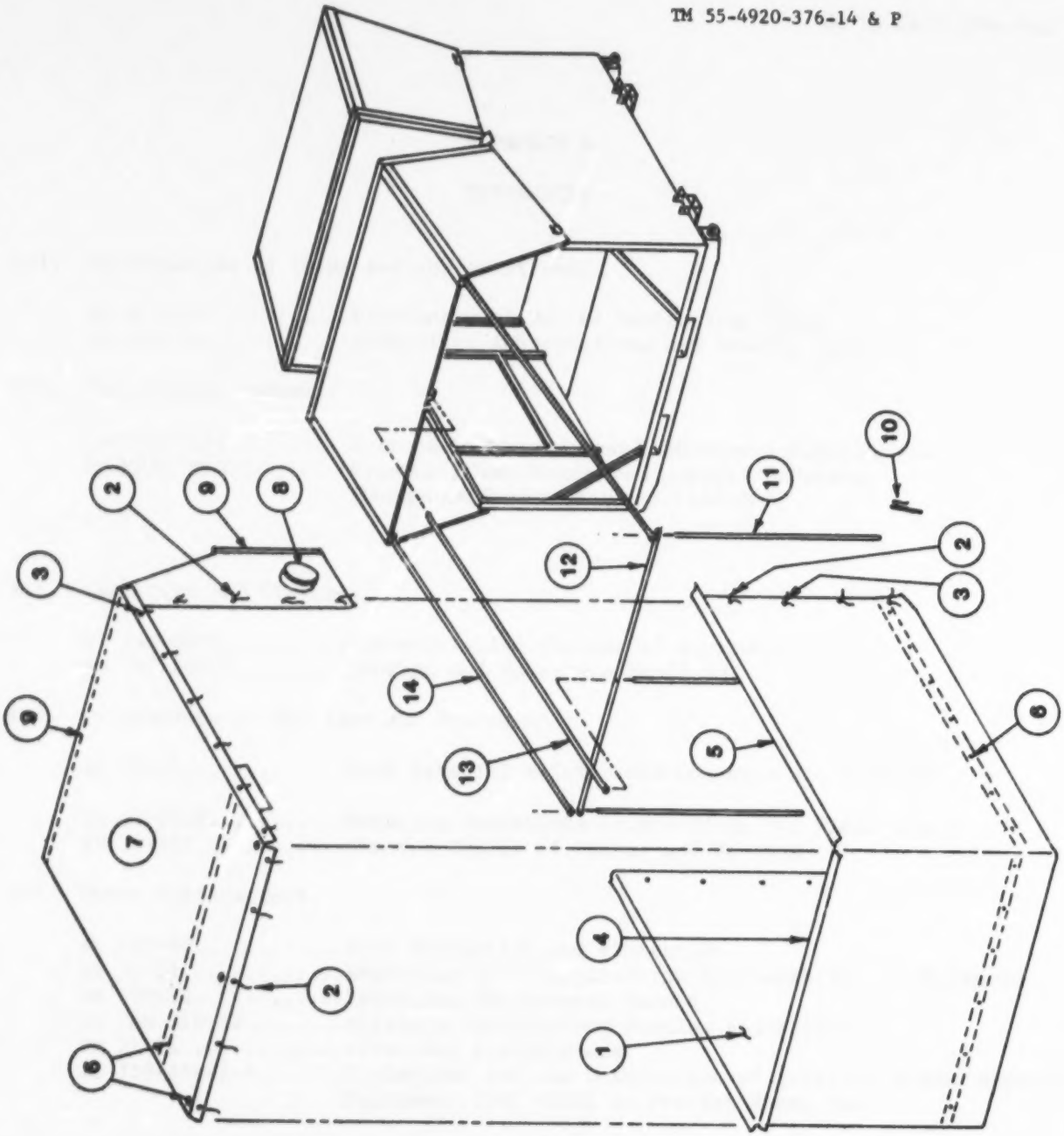


FIGURE 10 AIRMOBILE SHELTER
TENTAGE and ACCESSORIES
Illustrated parts breakout

APPENDIX A

REFERENCES

A-1. Dictionaries of Terms and Abbreviations.

AR 310-25.....Dictionary of United States Army Terms
AR 310-50.....Authorized Abbreviations and Brevity Codes

A-2. Publication Indexes.

DA PAM 310-1 ..... Consolidated Index of Army Publications and Blank Forms
DA PAM 738-751 ..... Functional Users Manual for The Army Maintenance Management System - Aviation (TAMMS-A)

A-3. Logistics and Storage.

TM 740-90-1.....Administrative Storage of Equipment
TM 743-200-1.....Storage and Materials Handling

A-4. Maintenance of Supplies and Equipment.

AR 750-1.....Army Material Maintenance Concepts and Policies

TM 43-0139.....Painting Operations Instructions for Field Use
TM 10-269.....General Repair of Canvas and Webbing

A-5. Other Publications.

AR 420-90.....Fire Prevention and Protection
AR 55-38.....Reporting of Transportation Discrepancies in Shipments
AR 700-58.....Packaging Improvement Report
DA PAM 310-13 .....Military Publications Posting and Filing
FM 21-11.....First Aid for Soldiers
TM 750-244-1-4.....Procedures for the Destruction of Aviation Ground Support Equipment (FSC 4920) to Prevent Enemy Use

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APPENDIX B
MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. The purpose of the maintenance allocation chart is to provide all activities with authorized maintenance functions to be performed at each level of maintenance.

B-2. Maintenance Functions. Maintenance functions shall be limited to and defined as follows:

a. Adjust. Maintain within prescribed limits by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

b. Align. To adjust specified variable elements of an item to bring abou optimum or desired performance.

c. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

d. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

e. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment/system.

f. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (e. g., DMWR) in pertinent technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

g. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like-new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army Equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipment/components.

h. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module/component/assembly, end item or system.

i. Replace. The act of substituting a serviceable like-type part, subassembly, module (component or assembly) in a manner to allow the proper functioning of an equipment/system.

j. Service. Operations required periodically to keep an item in proper operating condition, i. e., to clean, preserve, drain, paint, or to replenish fuel/lubricants/hydraulic fluids or compressed air supplies.

k. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

l. Symbols. The uppercase letter placed in the appropriate column indicates the lowest level at which that particular maintenance function is to be performed.

B-3. Explanation of Format. Purpose and use of the format are as follows, and shall be explained in the introductory portion of the MAC.

a. Column 1. Group number. Column 1 lists group numbers, the purpose of which is to match components, assemblies, subassemblies and modules with the next higher assembly.

b. Column 2. Functional group. Column 2 lists the next higher assembly group and the item names of components, assemblies, subassemblies and modules within the group for which maintenance is authorized.

c. Column 3. Maintenance function. Column 3 lists the twelve maintenance functions defined in B-2 above. Each maintenance function required for an item shall be specified by the symbol among those listed in d below which indicates the level responsible for the required maintenance. Under this symbol there shall be listed an appropriate work measurement time value determined as indicated in e below.

d. Use of symbols. The following symbols shall be used to prescribe work function responsibility:

C - Operator/Crew
O - Organization
F - Direct Support
H - General Support
D - Depot

e. Column 4, tools and equipment. This column is used to specify, by code, those tools and test equipment required to perform the designated function.

f. Column 5, remarks. Self-explanatory.

MAINTENANCE ALLOCATION CHART
FOR
SHELTER AIR MOBILE, NSN 4920-00-900-8378

(AR 310-3)

(1) GROUP NO	(2) FUNCTIONAL GROUP	(3) MAINTENANCE FUNCTION											(4) TOOLS AND EQUIPMENT	(5) REMARKS
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL	REBUILD		
01	Shelter													
	Paint Finish	0							0	0				
	Floor Panels	0							0					
02	Tentage	0							0	0				
03	Tent Frame	0							0	0				
04	Electrical System													
	AC Receptacle	0							0					
	Circuit Breaker	0							0	0				
	Light Assembly	0							0					

APPENDIX C
REPAIR PARTS AND SPECIAL TOOLS LIST
(Current as of 6 February 1975)

Section 1.
INTRODUCTION

C-1. SCOPE.

This appendix lists the repair parts required for organizational maintenance of SHELTER, AIRMOBILE, P/N AA4920-7016-1.

C-2. GENERAL.

This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of repair parts authorized for use in the performance of maintenance. Parts are listed in figure and item number sequence.

b. Section III. Special Tools List. (Not Applicable).

c. Section IV. National Stock Number and Part Number Index. (Not Applicable).

C-3. EXPLANATION OF COLUMNS.

The following provides an explanation of columns found in the tabular listing.

a. Illustration. This column is divided as follows:

(1) Figure Number. Indicates the figure number of the illustration in which the item is shown.

(2) Item Number. The number used to identify each item called out in the illustration.

b. Source, Maintenance and Recoverability Codes (SMR).

(1) Source Code. Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PB	Item procured and stocked for insureance purpose because essentiality dictates that a minimum quantity be available in the supply system.

(2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

a. The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance.

Code	Application/Explanation
O	Support item is removed, replaced, used at the organizational.

b. The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain the following maintenance code:

Code	Application/Explanation
Z	Nonreparable. No repair is authorized.

(3) Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Code	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.

c. National Stock Number. Indicates the National Stock Number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawing, specifications standards, and inspection requirements, to identify an item or a range of items. Note: When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item used in performing the actual maintenance function. This measure is expressed by a two-character alphabetic abbreviation (e.g., EA, FT, PR).

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure which is prepared for a functional group, sub-functional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, (e.g., shims, spacers, etc).

C-4. Abbreviation (Not Applicable).

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(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION / USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
2			4920-00-900-8378	AA4920-7016-1	81996	SHELTER, AIRMOBILE		1
						SECTION II REPAIR PARTS LIST		
						GROUP 02 TENTAGE		
2		PBOZZ	4920-01-045-5886	AA4920-7016-30	81996	TENTAGE ASSEMBLY	EA	1
10	1	PBOZZ	4920-00-134-4858	AA4920-7016-30-2	81996	SIDE,AIRMOBILE SHELTER	EA	2
10	7	PBOZZ	4920-00-134-4857	AA4920-7016-30-1	81996	TENT SECTION,AIRMOBILE	EA	2
						GROUP 03 TENT FRAME		
10	10	PBOZZ	4920-00-134-4855	AA4920-7016-37	81996	STAKE,TENT,AIRMOBILE	EA	30
10	11	PBOZZ	8340-00-188-8413	MIL-F-1716C	81996	POLE,TENT,VERTICAL	EA	6
10	12	PBOZZ	4920-00-134-4859	AA4920-7016-36	81996	POLE,AIRMOBILE,SHELTER,FRAME	EA	2
10	13	PBOZZ	4920-00-134-4856	AA4920-7016-35	81996	POLE,AIRMOBILE,SHELTER,CENTER	EA	2
10	14	PBOZZ	4920-00-134-4860	AA4920-7016-34	81996	POLE,AIRMOBILE,SHELTER,LATERAL	EA	4
8	28	PBOZZ	1670-00-294-2954	V1507	83445	BOLT,RING	EA	4
8	50	PBOZZ	6210-00-269-8351	VXHF15/G43	15235	LIGHT,FIXTURE	EA	4

By Order of the Secretary of the Army:

FRED C. WEYAND
General, United States Army
Chief of Staff

Official:
VERNE L. BOWERS
Major General, United States Army
The Adjutant General

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RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

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PFC JOHN DOE
COA, 3d ENGINEER BN
FT. LEONARDWOOD, MO 63108

DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 55-4920-376-14&P	30 Apr 75	Air Mobile Shelter (AA4920-7016-1) (NSN 4920-00-900-8378)

BE EXACT. PIN-POINT WHERE IT IS

PAGE NO	PARAGRAPH	FIGURE NO	TABLE NO
6	2-1 a		
B1		4-3	
125	line 20		

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

In line 6 of paragraph 2-1a the manual states the engine has 6 Cylenders. The engine on my set only has 4 Cylenders. Change the manual to show 4 Cylenders.

Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.

I ordered a gasket, item 19 on figure B-16 by NSN 2910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
JOHN DOE, PFC (268) 317-7111

SIGN HERE John Doe
JOHN DOE

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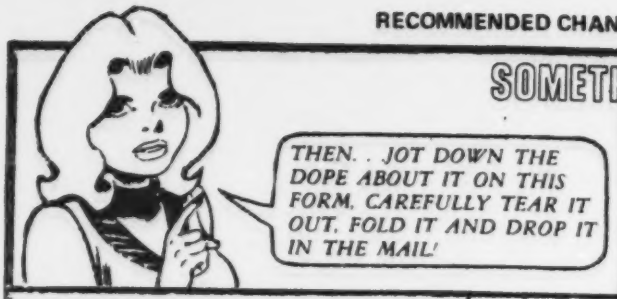

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